

WHAT IS CLAIMED IS:

1. A method for repairing defective pixels of a liquid crystal display panel wherein the method comprises at least the steps of:

obtaining the location of a defective pixel on the liquid crystal display;

5 inputting a pixel signal, wherein the pixel signal further comprises a first pixel brightness signal used to control a pixel with a first brightness according to the pixel signal;

replacing the first pixel brightness signal with a default brightness signal if the pixel signal is used to be inputted to the defective pixel, wherein
10 the default brightness signal is used to control the pixel with a second brightness; and

outputting the pixel signal.

2. The method according to claim 1, wherein the second brightness is of complete darkness.

15 3. The method according to claim 2, wherein the default brightness signal is a low voltage signal if the liquid crystal display panel is a VA mode liquid crystal display panel.

4. The method according to claim 2, wherein the default brightness signal is a high voltage signal if the liquid crystal display panel is a TN mode liquid crystal display panel.

5. The method according to claim 1, wherein the pixel signal further
5 comprises a pixel location signal, which corresponds to the pixel.

6. The method according to claim 5, wherein the pixel location signal further comprises a clock signal, an enabling signal, a vertical synchronous signal and a horizontal synchronous signal.

7. The method according to claim 5, wherein the pixel location signal
10 determines whether the pixel signal is used to be inputted to the defective pixel.

8. A device for repairing defective pixels of a liquid crystal display, comprising at least:

a defective pixel storage unit used to output a defective pixel signal,
15 wherein the defective pixel signal is used to represent the location of the defective pixel on the liquid crystal display;

a pixel signal storage unit used to output a pixel signal, wherein the

pixel signal further comprises a pixel brightness signal used to control a pixel with a first brightness and a pixel location signal used to represent the location of a pixel on the liquid crystal display;

5 a location comparison unit, which, being coupled to the defective pixel signal storage unit and the pixel signal storage unit respectively, is used to compare the defective pixel signal with the pixel location signal to determine whether the pixel signal is used to be inputted to the defective pixel signal; and

10 a pixel signal replacement unit coupled to the location comparison unit is used to replace the pixel brightness signal with a default brightness signal if the pixel signal is determined to be inputted to the defective pixel, wherein the default brightness signal is used to control the pixel with a second brightness.

9. The device according to claim 8, wherein the second brightness is of complete darkness.

15 10. The device according to claim 8, wherein the default brightness signal is a low voltage signal if the liquid crystal display is a VA mode liquid crystal display panel.

11. The device according to claim 8, wherein the default brightness signal

is a high voltage signal if the liquid crystal display is a TN mode liquid crystal display panel.

12. The device according to claim 8, wherein the pixel location signal further comprises a clock signal, an enabling signal, a vertical synchronous
5 signal and a horizontal synchronous signal.

13. The device according to claim 8, wherein the device for repairing defective pixels of a liquid crystal display panel is installed in a scaler.

14. The device according to claim 8, wherein part of the elements of the device for repairing defective pixels of a liquid crystal display panel is installed
10 in a scaler.

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